

Substitute Form PTO-1449 (Modified) SEP 8 2005 Information Disclosure Statement by Applicant (Use separate sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 09850-016US1	Application No. 10/509,115
	Applicant Albert E. Sanderson et al.		
	Filing Date June 16, 2005	Group Art Unit	

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
/FDL/	AA	1131614	03/09/1915	A. Radtke			
/FDL/	AB	4473763	09/25/1984	McFarland et al.			
/FDL/	AC	5397922	03/14/1995	Paul et al.			
/FDL/	AD	5429482	07/04/1995	Takenaka et al.	↓	↓	
	AE						
	AF						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
/FDL/	AG	4303745	08/12/1993	Germany	↓	↓		X
/FDL/	AH	2358845	08/08/2001	Great Britain	↓	↓		
/FDL/	AI	01/11214	02/15/2001	WIPO	↓	↓		
	AJ							
	AK							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AL	Copy of International Search Report mailed August 11, 2005 from European Patent Application No. 03719515.3, filed March 31, 2003 →
	AM	
	AN	
	AO	

Not a reference, per se

Examiner Signature /F. Daniel Lopez/ (04/19/2007)	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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	Applicant Albert E. Sanderson et al.		
	Filing Date Herewith	Group Art Unit	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
/FDL/	AA	748,559	12/29/1903	Peet			
	AB	812,636	2/13/1906	Callan			
	AC	821,546	5/22/1906	Smallbone			
	AD	1,019,521	3/5/1912	Pratt			
	AE	1,161,152	11/23/1915	Nyborg			
	AF	1,194,258	8/8/1916	Walker			
	AG	1,210,649	1/2/1917	Holley et al.			
	AH	1,255,973	2/12/1918	Almen			
	AI	RE15,442	9/5/1922	Almen			
	AJ	1,577,010	3/16/1926	Whatley			
	AK	1,648,000	11/8/1927	Lee			
	AL	1,659,374	2/14/1928	Robson			
	AM	1,673,280	6/12/1928	Evans			
	AN	1,772,977	8/12/1930	Arrighi			
	AO	1,842,322	1/19/1932	Hulsebos			
	AP	1,857,656	5/10/1932	Oldfield			
	AQ	1,894,033	1/10/1933	Farwell			
	AR	1,968,470	7/31/1934	Szombathy			
	AS	2,042,730	6/2/1936	Redrup			
	AT	2,048,272	7/31/1936	Linthicum			
	AU	2,104,391	1/4/1938	Redrup			
	AV	2,112,934	2/23/1937	Stinnes et al.			
	AW	2,151,614	9/17/1937	Nevatt et al.			
	AX	2,247,527	11/10/1939	Stinnes			
	AY	2,256,079	9/16/1941	Dinzi			
	AZ	2,263,561	11/25/1941	Biermann			
/FDL/	BA	2,282,722	1/30/1940	Hall			

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/FDL/	BB	2,302,995	11/24/1942	Holmes			
	BC	2,303,838	12/1/1942	Hall			
	BD	2,335,048	11/23/1943	Feroy			
	BE	2,341,203	8/31/1942	Borer			
	BF	2,357,735	7/3/1943	Hall			
	BG	2,465,510	10/23/1944	Bonnafe			
	BH	2,513,083	06/27/1950	Eckert			
	BI	2,532,254	11/28/1950	Bouchard	↓	↓	
	BJ	2,539,880	1/30/1951	Wildhaber	74	60	
	BK	2,653,484	9/29/1953	Zeher	↑	↑	
	BL	2,737,895	3/13/1956	Ferris			
	BM	2,827,792	1/22/1953	Hopkins			
	BN	2,910,973	11/3/1959	Witzky			
	BO	2,940,325	6/14/1960	Nesch			
	BP	2,957,421	10/25/1960	Mock			
	BQ	3,000,367	9/19/1961	Eagleson			
	BR	3,076,345	2/5/1963	Leciercq			
	BS	3,077,118	2/12/1963	Robbins			
	BT	3,176,667	4/6/1965	Hammer			
	BU	3,182,644	5/11/1965	Drtna			
	BV	3,198,022	8/3/1965	Algor de Waern			
	BW	3,273,344	9/20/1966	Christenson			
	BX	3,292,554	12/20/1966	Hessler			
	BY	3,386,425	6/4/1968	Morsell			
	BZ	3,528,317	9/15/1970	Cummins			
	CA	3,590,188	6/29/1971	Frink et al.			
	CB	3,654,906	4/11/1972	Airas			
↓	CC	3,842,440	10/22/1974	Karlson			
/FDL/	CD	3,847,124	11/12/1974	Kramer			

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			Filing Date Herewith	Group Art Unit

/FDL/	CE	3,861,829	1/21/1979	Roberts et al.			
	CF	3,877,839	4/15/1975	Ifield			
	CG	3,939,809	2/24/1976	Rohs			
	CH	3,945,359	3/23/1976	Asaga			
	CI	3,959,983	6/1/1976	Roberts et al.			
	CJ	3,968,699	7/13/1973	van Beukering			
	CK	3,969,046	7/13/1976	Wynn			
	CL	3,974,714	8/17/1976	Fritsch			
	CM	4,011,842	3/15/1977	Davies et al.			
	CN	4,060,178	11/29/1977	Miller			
	CO	4,066,049	1/3/1978	Teodorescu et al.			
	CP	4,075,933	2/28/1978	Stephens			
	CQ	4,077,269	3/7/1978	Hodgkinson	92	12.1	
	CR	4,094,202	6/13/1978	Kemper			
	CS	4,100,815	7/18/1978	Kemper			
	CT	4,112,826	9/12/1978	Cataldo			
	CU	4,144,771	3/20/1979	Kemper et al.			
	CV	4,152,944	5/8/1979	Kemper			
	CW	4,168,632	9/25/1979	Fokker			
	CX	4,174,684	11/20/1979	Roseby et al.			
	CY	4,178,135	12/11/1979	Roberts			
	CZ	4,178,136	12/11/1979	Reid et al.			
	DA	4,203,396	5/20/1980	Berger			
	DB	4,208,926	6/24/1980	Hanson			
	DC	4,231,724	11/4/1980	Hope et al.			
	DD	4,235,116	11/25/1980	Meijer et al.			
	DE	4,236,881	12/2/1980	Pfleger			
	DF	4,270,495	6/2/1981	Freudenstein et al.			
/FDL/	DG	4,285,303	8/25/1981	Leach			

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Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		DT09 Rec'd PCT/PTO 2.8 SEP 2004 Applicant Albert E. Sanderson et al.	
		Filing Date Herewith	Group Art Unit

/FDL/	DH	4,285,640	8/25/1981	Mukai		
	DI	4,294,139	10/13/1981	Bex et al.		
	DJ	4,297,085	10/27/1981	Brucken		
	DK	4,323,333	4/6/1982	Apter et al.		
	DL	4,342,544	8/3/1982	Pere		
	DM	4,345,174	8/17/1982	Angus		
	DN	4,349,130	9/14/1982	Bair		
	DO	4,418,586	12/6/1983	Maki et al.		
/FDL/	DP	4,433,596	2/28/1984	Scalzo		
	DQ	4,433,596	2/28/1984	Scalzo		
/FDL/	DR	4,449,444	5/22/1984	Forster		
	DS	4,454,426	06/12/1984	Benson		
	DT	4,478,136	10/23/1984	Heiser et al.		
	DU	4,489,682	12/25/1984	Kenny		
	DV	4,491,057	1/1/1985	Ziegler		
	DW	4,505,187	3/19/1985	Burgio di Aragona		
	DX	4,513,630	4/30/1985	Pere et al.		
	DY	4,515,067	5/7/1985	Heyl		
	DZ	4,545,507	10/8/1985	Barall		
	EA	4,569,314	2/11/1986	Milu		
	EB	4,602,174	07/22/1986	Redlich		
	EC	4,708,099	11/24/1987	Ekker		
	ED	4,715,791	12/29/1987	Berlin et al.		
	EE	4,729,717	3/8/1988	Gupta		
	EF	4,776,259	10/11/1988	Takai		
	EG	4,780,060	10/25/1988	Terauchi		
	EH	4,811,624	3/14/1989	Fritsch		
	EI	4,852,418	8/1/1989	Armstrong		
/FDL/	EJ	4,869,212	9/26/1989	Sverdlin		

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/FDL/	EK	4,920,859	5/01/1990	Smart et al.	↓	↓	
	EL	4,941,809	7/17/1990	Pinkerton	↓	↓	
	EM	4,966,042	10/30/1990	Brown	↓	↓	
	EN	5,002,466	3/26/1991	Inagaki et al.	92	12.2	
	EO	5,007,385	4/16/1991	Kitaguchi			
	EP	5,025,757	6/25/1991	Larsen			
	EQ	5,027,756	7/2/1991	Shaffer			
	ER	5,044,889	9/3/1991	Pinkerton			
	ES	5,049,799	9/17/1991	Tsai et al.			
	ET	5,063,829	11/12/1991	Takao et al.			
	EU	5,088,902	2/18/1992	Marioni			
	EV	5,094,195	3/10/1992	Gonzalez			
	EW	5,102,306	4/7/1992	Liu			
	EX	5,113,809	5/19/1992	Ellenburg			
	EY	5,129,797	7/14/1992	Kanamaru			
	EZ	5,136,987	8/11/1992	Schechter et al.			
	FA	5,154,589	10/13/1992	Ruhl et al.			
	FB	5,201,261	4/13/1993	Kayukawa et al.			
	FC	5,261,358	11/16/1993	Rorke			
	FD	5,280,745	1/25/1994	Maruno			
	FE	5,329,893	7/19/1994	Drengel et al.			
	FF	5,336,056	8/9/1994	Kimura et al.			
	FG	5,351,657	10/4/1994	Buck			
	FH	5,405,252	4/11/1995	Nikkamen			
	FI	5,437,251	8/1/1995	Anglim et al.			
	FJ	5,535,709	7/16/1996	Yashizawa			
↓	FK	5,542,382	8/6/1996	Clarke			
	FL	5,553,582	9/10/1996	Speas			
/FDL/	FM	5,562,069	10/8/1996	Gillbrand et al.	↓	↓	

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/FDL/	FN	5,572,904	11/12/1996	Minculescu				
	FO	5,596,920	1/28/1997	Umemura et al.				
	FP	5,605,120	2/25/1997	Hedelin				
	FQ	5,630,351	5/20/1997	Clucas				
	FR	5,634,852	6/3/1997	Kanamaru				
	FS	5,676,037	10/14/1997	Yoshizawa				
	FT	5,699,715	12/23/1997	Forster				
	FU	5,699,716	12/23/1997	Ota et al.				
	FV	5,704,274	1/06/1998	Forster				
	FW	5,762,039	6/9/1998	Gonzalez				
	FX	5,768,974	6/23/1998	Ikeda et al.				
	FY	5,782,219	7/21/1998	Frey, et al.				
	FZ	5,785,503	7/28/1998	Ota et al.				
	GA	5,818,132	10/06/1998	Konotchick				
	GB	5,839,347	11/24/1998	Nomura et al.				
	GC	5,890,462	4/6/1999	Bassett				
	GD	5,894,782	4/20/1999	Nissen et al.				
	GE	5,897,298	4/27/1999	Umemura				
	GF	5,927,560	7/27/1999	Lewis et al.				
	GG	5,931,645	8/3/1999	Goto et al.				
	GH	6,012,903	1/11/2000	Boelkins				
	GI	6,053,091	4/25/2000	Tojo				
	GJ	6,065,433	5/23/2000	Hill				
	GK	6,074,174	6/13/2000	Lynn et al.				
	GL	6,155,798	12/5/2000	Deiningner et al.				
	GM	6,397,794	6/4/2002	Sanderson et al.				
	GN	6,422,831	7/23/2002	Ito et al.				
✓	GO	US-2002-0106238	8/8/2002	Sanderson et al.				
/FDL/	GP	6,446,587	9/10/2002	Sanderson et al.	✓	✓		

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(37 CFR §1.98(b))			

/FDL/	GQ	6,460,450	10/8/2002	Sanderson et al.	↓	↓	
/FDL/	GR	US-2002-0194987	12/26/2002	Sanderson et al.	↓	↓	
/FDL/	GS	US-2003-0084785	05/08/2003	Sanderson et al.	↓	↓	
/FDL/	GT	US-2003-0138331	07/24/2003	Sanderson et al.	↓	↓	

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
/FDL/	GU	EP 0052387	10/18/1981	Europe → France	↓	↓		
↓	GV	461,343	12/26/1913	France	↓	↓		
↓	GW	815,794	04/1937	France	↓	↓	X	
↓	GX	1 015 857	10/27/1952	France	↓	↓		
↓	GY	1,416,219	9/20/1965	France	↓	↓	X	
↓	GZ	1,450,354	7/18/1966	France	↓	↓	X	
↓	HA	2,271,459	11/9/1973	France	↓	↓	X	
↓	HB	2 300 262	2/4/1975	France	↓	↓	X	
↓	HC	2,453,332	4/6/1979	France	↓	↓	X	
↓	HD	2 566 460	12/1985	France	↓	↓	X	
↓	HE	FR 2 649 755	01/18/1991	France	↓	↓		
↓	HF	89,352	12/31/1895	Germany	↓	↓		
↓	HG	345,813	7/25/1917	Germany	↓	↓	X	
↓	HH	515,359	12/18/1930	Germany	↓	↓		
↓	HI	698,243	10/1940	Germany	↓	↓		
↓	HJ	1 037 799	12/1/1958	Germany	↓	↓	X	
↓	HK	1,451,926	5/7/1965	Germany	↓	↓	X	
↓	HL	DT 2346836 A1	03/1975	Germany	↓	↓	X	
↓	HM	DE 2612270	09/22/1977	Germany	↓	↓	X	
↓	HN	DE 27 51 846	11/19/1977	Germany	↓	↓	X	
/FDL/	HO	DE 29 31 377	2/26/1981	Germany	↓	↓	X	

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/FDL/	HP	DE 3420529	12/05/1985	Germany				X	
	HQ	DE 37 00 005	7/14/1988	Germany				X	
	HR	282,125	12/1927	Great Britain					
	HS	GB 651893	04/11/1951	Great Britain					
	HT	55-37541	9/9/1978	Japan				X	
	HU	60-164677	8/27/1985	Japan				X	
	HV	61-212656	9/20/1986	Japan				X	
	HW	62-113938	4/25/1987	Japan				X	
	HX	JP 09151840	06/10/1997	Japan				X	
	HY	121,961	1/8/1920	United Kingdom					
	HZ	220,594	3/1924	United Kingdom					
	IA	629,318	9/1947	United Kingdom					
	IB	GB 2030254	10/3/1978	United Kingdom					
	IC	1,595,600	8/21/1981	United Kingdom					
	ID	WO 91/02889	03/07/1991	WIPO					
	IE	WO 92/11449	07/1992	WIPO					
	IF	WO 97/10415	3/20/1997	WIPO					
	IG	WO 99/14471	03/25/1999	WIPO					
	IH	WO 00/15955	03/23/2000	WIPO					
	II	WO 01/11237	02/15/2001	WIPO					
↓	IJ	WO 02/063139	08/15/2002	WIPO					
/FDL/	IK	WO 03/100231	12/04/2003	WIPO	↓	↓			

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
/FDL/	IL	Advanced diaphragm metering pump technology for lower pressure applications, LEWAecodos®
↓	IM	Bloomfield, Louis A., "How Things Work: Electric Motors," howthingswork.Virginia.edu, October 25, 2001, http://rabi.phys.virginia.edu/HTW/electric_motors.html .
↓	IN	Den Hartog, J.P. (Jacob Pieter), "Problem 144" 1956 New York
/FDL/	IO	ECycle Inc. schematic
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Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
/FDL/	IP	Freudenstein, "Development of an Optimum Variable-Stroke Internal-Combustion Engine Mechanism from the Viewpoint..." Journal of Mechanisms, Transmissions, and Automation in Design, vol. 105, pp. 259-266, 1984.
	IQ	Freudenstein, "Kinematic Structure of Mechanisms for Fixed and Variable-Stroke Axial-Piston Reciprocating Machines," Journal of Mechanisms, Transmissions, and Automation in Design, VI. 106, pp. 355-363, 1984.
	IR	Metering Pumps, LEWA modular®, American Lewa, The Technology Advantage.
	IS	Red Barn Engineering Presents, "Internal Combustion Motor with Integral Electric Generator For Use In Electric Vehicles," The MOGEN – Motor Generator – Hybrid Vehicles, http://www.mogen.net/index.shtml , copyright 1998.
	IT	Redlich, Robert, "A Summary of Twenty Years Experience with Linear Motors and Alternators," Sunpower, Inc., Athens, Ohio, U.S.A., 1996, http://www.sunpower.com/tech_papers/pub64/linmot.html .
/FDL/	IU	Sunpower, Inc., "High Efficiency, Oil-Free Compressor: Better Machines for A Better World," http://www.sunpower.com/compressors/compressor/index.html .
	IV	International Search Report mailed August 19, 2003 in Int. App. No. PCT/US03/00702.
	IW	International Search Report mailed May 31, 2002 in Int. App. No. PCT/US02/03220.
	IX	Written Opinion mailed December 03, 2002 in Int. App. No. PCT/US02/03220.

Not6 a reference, per se

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